

SECTION 7

MECHANICAL

COMMAND NAME: USS .....

SSN/SSBN/SSGN ..... (B/G)

DATE OF SURVEY: .....

CONDUCTED BY:.....

SHIP REPRESENTATIVE:.....

NO. COMPLETE: ..... NO. REQ ACTION: ..... NOT APPLICABLE:.....

**1. DIESEL ENGINE**

(B1B0) IS A CRANKCASE EXPLOSION SIGN POSTED ON THE DIESEL  
REQUIRING A 30 MIN WAIT PRIOR TO OPENING THE CRANKCASE?

REF: NSTM 233-13.2.1.5

C R NA

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**2. HDR ANTENNA**

(B2A0) IS A WARNING PLATE INSTALLED IN THE CRAC ADJACENT TO  
HE-2 AND HE-28 STATING: "WARNING - DO NOT PLACE HE-2 IN THE  
VENT POSITION WITH HE-28 NOT SHUT, UNLESS VENTING AIR FROM HDR  
SYSTEM PER APPLICABLE SSM"?

REF: RLAR PYR-14081 (SOURCE DOCUMENT IS PY-46084)

C R NA

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**3. CHLORATE CANDLES**

(C1A0) ARE THE CHLORATE CANDLES BEING STOWED IN AREAS THAT ARE FREE  
FROM OIL AND DIRT CONTAMINATION?

REF: SUB ATMOSPHERE CONTROL MANUAL para. 5-2.4.2(a)  
NSTM 550-5.7

C R NA

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(C1B0) IS THE CANDLE STOWAGE AREA CONSPICUOUSLY MARKED SO THAT  
SPECIAL ACTION MAY BE TAKEN IN THE EVENT OF FIRE WITHIN THE  
COMPARTMENT?

REF: NSTM 550-5.7.2  
SUB ATMOSPHERE CONTROL MANUAL para. 5-2.4.2(a)

C R NA

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**4. WATERTIGHT DOORS**

(D1A0) ARE THE LATCHES AND SPRINGS THAT HOLD DOORS OPEN OPERATIONAL?

REF: MIP A-80 (A-1)

C R NA

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(D1B0) DO WATERTIGHT DOORS OPERATE SATISFACTORILY, I.E., DOGS ENGAGE  
PROPERLY, DOOR BUSHINGS AND HINGE PINS ARE NOT WORN, PEELING  
OR WORN CHROME, AND NO EXCESSIVE LUBRICATION?

REF: MIP A-80 (A-1)

C R NA

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(D1C0) ARE THE GASKETS, KNIFE EDGES, AND DEAD LIGHTS FREE OF PAINT AND DEFECTS?

REF: MIP A-80 (A-2)  
MIP A-80 (R-3)

C R NA

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#### TANKS AND COMPARTMENTS

(D1D0) WITH THE DOOR SHUT AND DOGGED, DO ALL THE DOGS MAKE METAL-TO-METAL CONTACT?

REF: MIP A-80 (A-1)

C R NA

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(D1E0) DOES THE OPEN DOOR DOGGING INTERLOCK OPERATE CORRECTLY?

REF: MIP A-80 (A-1)

C R NA

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(D1F0) DO ALL OPEN HATCHES (E.G., BRIDGE, WEAPON LOADING, ESCAPE TRUNK) HAVE HATCH COVERS AND PROTECTIVE COVERS FOR TRUNK COAMING SEATS TO PREVENT DAMAGE TO THE HATCH GASKET, HATCH SECURING MECHANISMS, AND THE GASKET SEATING SURFACE?

REF: MIP A-80 (D-1R)

C R NA

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(D1G0) ARE THE HATCH WIRE BRAIDED LANYARDS FRAYED?

REF: OPNAVINST 5100.19D CHAP. D-3 PARA. D0302.A

C R NA

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#### TRASH COMPACTOR

(D2A0) IS THE MATERIAL CONDITION SATISFACTORY? (NO LATCHES MISSING, EXCESSIVELY WORN, OR BROKEN, BARREL NOT MISALIGNED, INTERLOCKS OPERATIONAL)

REF: MIP A-96 / (Q-1)

C R NA

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(D2B0) ARE OPERATING INSTRUCTIONS POSTED?

REF: OPNAVINST 5100.19 / (D0805.i)

C R NA

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#### TRASH DISPOSAL UNIT

(D3A0) IS A TORQUE WRENCH CALIBRATED IN CW AND CCW DIRECTIONS AVAILABLE AND A STOWAGE RACK PROVIDED?

REF: MIP A-96 SERIES

C R NA

(D3B0) ARE OPERATING INSTRUCTIONS POSTED?

REF: OPNAVINST 5100.19 / (D0805.i)

C R NA

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(D3C0) ARE KEVLAR GLOVES AVAILABLE FOR ROLLING AND PREPARING  
CANS?

REF: OPNAVINST 5100.19 D0805.a

C R NA

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(D3D0) IS A FACE SHIELD AND EYE PROTECTION AVAILABLE FOR PERSONNEL  
BREAKING GLASS BOTTLES?

REF: OPNAVINST 5100.19 D0805.h

C R NA

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#### PERSONNEL HAZARDS

##### 1. BURN HAZARDS

(F1A0) ARE HOT SURFACES, I.E., FLANGES, ETC., LAGGED TO PREVENT BURNS  
TO PERSONNEL?

REF: NSTM 635 ART 635-1.1

C R NA

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##### 2. FIRE HAZARDS

(2MMF3A0)

(F3A0) ARE SPRAY SHIELDS INSTALLED ON FLAMMABLE SYSTEMS FLANGES  
ADJACENT TO HOT SURFACES & ELECTRICAL EQUIPMENT? (IN/OUT  
FLOWMETER FLANGES, IN/OUT STRAINER FLANGES, DUPLEX STRAINER  
FLANGES, IN/OUT FILTER SEPARATOR FLANGES, ETC.)

REF: NSTM 542 ART 542-2.4.5  
NSTM 505 ART 505-7.9.4

C R NA

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##### 3. SAFETY PRECAUTION SIGNS

(G1A0) HAVE SAFETY PRECAUTION SIGNS BEEN POSTED FOR THE LATHE, BENCH  
GRINDER, AND DRILL PRESS?

REF: OPNAVINST 5100.19 SERIES D0804  
LATHE SIGN 0177-LF-224-3801  
GRINDER SIGN 0177-LF-225-3601  
DRILL PRESS SIGN 0118-LF-114-3000

C R NA

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##### 4. EYE HAZARD SIGNS

(G1A1) ARE EYE HAZARD WARNING SIGNS POSTED NEAR ALL PERMANENTLY  
INSTALLED GRINDERS, LATHES, AND DRILL PRESSES?

REF: OPNAVINST 5100.19 SERIES D0804  
Eye Protection Sign NSN 9Q-01-100-8203

C R NA

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**EYE PROTECTION**

(G2A0) ARE TRANSPARENT, NON-SHATTER EYE SHIELDS MOUNTED OVER THE WHEELS OF THE BENCH GRINDER?

REF: OPNAVINST 5100.19 SERIES D0804

C R NA

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(G2B0) ARE FACE SHIELDS LOCATED IN VICINITY OF GRINDER?

REF: OPNAVINST 5100.19 SERIES D0804

C R NA

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**NON-SKID STRIPS/SAFETY TAPE**

(G3A0) ARE NON-SKID STRIPS AND STRIPED YELLOW AND BLACK TAPE ON DECK IN FRONT OF LATHE, DRILL PRESS AND BENCH GRINDER? (DIAMOND TREAD DOES NOT SATISFY REQUIREMENT)

REF: OPNAVINST 5100.19 SERIES D0804  
DECK STRIPS 9G 7220-00-205-0389  
CHECKERBOARD YELLOW AND BLACK TAPE 9905-01-342-5934  
STRIPED YELLOW AND BACK TAPE 9905-01-342-5933

C R NA

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**BENCH GRINDER**

(G4A0) IS THE TOOL REST INSTALLED AND ADJUSTED TO WITHIN 1/8 " OF THE GRINDING OR WIRE WHEEL?

REF: OPNAVINST 5100.19 SERIES D0804

C R NA

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(G4B0) IS THERE EVIDENCE THAT THE WHEEL HAS BEEN USED TO GRIND NON-FERROUS METAL? (BUILD UP OF THIS MATERIAL CAN CAUSE IMBALANCE AND POSSIBLE DISINTEGRATION)

REF: OPNAVINST 5100.19 SERIES D0804

C R NA

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(G4C0) ENSURE THAT THE UPPER POINT OF OPENING IN THE GRINDING WHEEL HOOD FACING THE OPERATOR IS NOT LESS THAN 25 DEGREES AND NOT MORE THAN 65 DEGREES FROM A VERTICAL LINE DRAWN THROUGH THE SPINDLE CENTER. MAXIMUM EXPOSURE OF THE WHEEL PERIPHERY OR CIRCUMFERENCE ON BENCH OR FLOOR STANDS DOES NOT EXCEED 90 DEGREES.

REF: OPNAVINST 5100.19 SERIES D0804

C R NA

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**LATHE**

(G5A0) IS THE POWER SWITCH LOCATED IN SUCH A POSITION THAT THE OPERATOR WILL NOT HAVE TO REACH OVER THE ROTATING MATERIAL?

REF: COMSUBLANT A&I N-3161 (SSN 688 CLASS)  
TRIDENT A&I TRID-250 (SSBN 726 CLASS)

C R NA

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(G5B0) DOES LATHE LIGHT MEET MIL-F-16377/56? (SWIVEL JOINTS MAXIMUM OF 90 DEG MOVEMENT, LIGHT SOCKET/SWIVEL 350 DEG MAXIMUM ROTATION AND 90 DEG UP AND DOWN MOVEMENT, BASE SWIVEL MAXIMUM 325 DEG ROTATION)

REF: OPNAVINST 5100.19 / D0804.a.9  
LIGHT FIXTURE 6230-00-883-6209  
APL 893313287X ENGINE ROOM MISC LIGHTING

C R NA

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**PNEUMATIC GREASE GUNS**

(G7A1) ARE PNEUMATIC GREASE GUNS CONFIGURED IAW SUBMARINE GREASING MANUAL?

REF: NAVSEA T6350-AA-HBK-010 FIG 2-1

C R NA

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**NITROGEN CHARGING EQUIPMENT**

(G8A0) IS NITROGEN CHARGING EQUIPMENT IN GOOD REPAIR AND WITHOUT EVIDENCE OF CONTAMINATION. (OPEN ENDING PIPING BAGGED, GAGES IN CAL, RELIEF VALVE SET)

REF: MIL-STD-1330C  
NSTM 550.7.22

C R NA

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**TESTING****1. OXYGEN GENERATOR CELL REMOVAL RIG**

(G9A0) IS THE CELL LIFTING RIG WEIGHT TESTED AND IN PERIODICITY (48 MONTHS)?

REF: JOINT FLEET MAINTENANCE MANUAL Vol. V Rev. A, para. 7.3.1

C R NA

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**2. OXYGEN GENERATOR METERS AND GAGES**

(G9A1) ARE THE EOG GAGES AND METERS BOTH CALIBRATED ANNUALLY?

REF: PMS 5154/903 A-3 AND A-4

C R NA

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2. STEAM KETTLE

(H1A0) HAS HYDROSTATIC TEST OF THE STEAM JACKET AND DISCHARGE LINE  
BEEN ACCOMPLISHED ANNUALLY? IS  
IDENTIFICATION TAG IN PLACE?

REF: MIP 6520/001 SERIES  
COMSUBLANT 212244Z NOV 01

C R NA

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(H1A1) HAS STEAM KETTLE RELIEF VALVE BEEN TESTED ANNUALLY? IS  
IDENTIFICATION TAG IN PLACE?  
REF: MIP 6520/001 SERIES  
COMSUBLANT 212244Z NOV 01

C R NA

Comments:

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Comments: